

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: METALUX

Report Number: P388186

Luminaire Tested: **22CZ2-75VHE-SQR-UNV-L950-CD1-SWPD1-U**

Issue Date: 2/28/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P388186
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-542-6)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 2/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-75VHE-SQR-UNV-L950-CD1-SWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 5000K, 90 LEDS, AND SQUARE LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6498.9 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

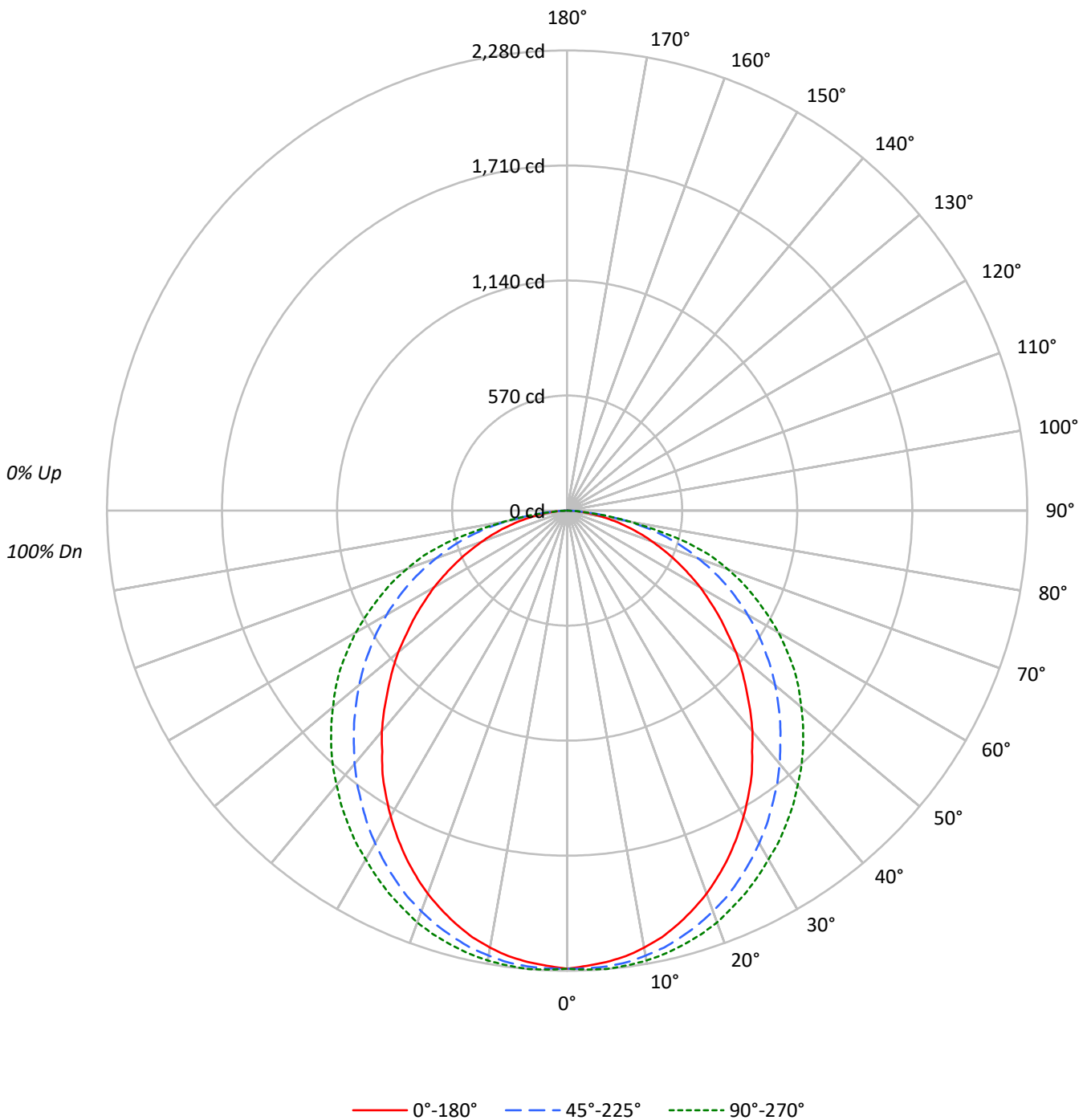
Input Watts (W): 54.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83					83			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43					43			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33					33			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6109	6109	6109
5°	6066	6124	6158
10°	6010	6119	6187
15°	5912	6092	6204
20°	5786	6051	6218
25°	5623	5990	6209
30°	5434	5914	6201
35°	5239	5826	6222
40°	5017	5754	6241
45°	4778	5681	6292
50°	4571	5630	6340
55°	4327	5586	6440
60°	4101	5561	6507
65°	3830	5519	6560
70°	3519	5436	6650
75°	3175	5291	6414
80°	2724	4685	4827
85°	2189	2763	2189



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.2	3.3
10°-20°	615.3	9.5
20°-30°	924.2	14.2
30°-40°	1102.3	17.0
40°-50°	1139.6	17.5
50°-60°	1047.8	16.1
60°-70°	834.1	12.8
70°-80°	509.6	7.8
80°-90°	110.8	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1754.8	27.0
0°-40°	2857.0	44.0
0°-60°	5044.4	77.6
0°-90°	6498.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6498.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2270	2270	2270	2270	2270	
5°	2246	2252	2267	2276	2280	213
15°	2122	2147	2187	2218	2227	598
25°	1894	1940	2017	2073	2091	871
35°	1595	1663	1774	1866	1894	995
45°	1255	1345	1493	1613	1653	971
55°	922	1024	1191	1326	1373	825
65°	602	703	867	987	1030	596
75°	305	395	509	598	617	325
85°	71	86	90	77	71	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2270.2	2270.2	2270.2	2270.2	2270.2
2.5°	2257.9	2261.0	2270.2	2276.4	2276.4
5°	2245.5	2251.7	2267.1	2276.4	2279.5
7.5°	2227.0	2236.3	2257.9	2270.2	2273.3
10°	2199.3	2211.6	2239.4	2257.9	2264.1
12.5°	2165.3	2183.9	2217.8	2242.5	2248.6
15°	2122.2	2146.8	2186.9	2217.8	2227.0
17.5°	2072.8	2103.7	2153.0	2190.0	2202.4
20°	2020.4	2051.2	2112.9	2156.1	2171.5
22.5°	1958.7	1998.8	2069.7	2119.1	2131.4
25°	1893.9	1940.2	2017.3	2072.8	2091.3
27.5°	1823.0	1878.5	1961.8	2029.6	2045.1
30°	1748.9	1807.5	1903.2	1977.2	1995.7
32.5°	1671.8	1739.7	1841.5	1924.8	1949.4
35°	1594.7	1662.6	1773.6	1866.1	1893.9
37.5°	1505.3	1585.5	1708.8	1804.5	1838.4
40°	1428.1	1505.3	1637.9	1742.8	1776.7
42.5°	1341.8	1425.1	1563.9	1678.0	1718.1
45°	1255.4	1344.9	1492.9	1613.2	1653.3
47.5°	1175.2	1264.7	1418.9	1545.4	1585.5
50°	1091.9	1184.5	1344.9	1474.4	1514.5
52.5°	1002.5	1104.3	1270.8	1400.4	1446.6
55°	922.3	1024.1	1190.6	1326.4	1372.6
57.5°	839.0	943.9	1116.6	1246.2	1289.3
60°	761.9	863.7	1033.3	1159.8	1209.1
62.5°	678.6	783.5	950.0	1073.4	1119.7
65°	601.5	703.3	866.8	987.1	1030.2
67.5°	524.4	626.2	780.4	894.5	943.9
70°	447.3	549.0	690.9	802.0	845.2
72.5°	379.4	468.9	604.6	706.4	746.5
75°	305.4	394.8	508.9	598.4	616.9
77.5°	237.5	317.7	413.3	453.4	459.6
80°	175.8	237.5	302.3	311.5	311.5
82.5°	117.2	163.5	188.2	191.2	188.2
85°	70.9	86.4	89.5	77.1	70.9
87.5°	24.7	24.7	15.4	9.3	3.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)